INEOS STYROLUTION

Novodur M201AS

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL DATASHEET

DESCRIPTION

Novodur® M201AS is a medium impact, high gloss injection molding grade with improved chemical resistance

FEATURES

- Improved chemical resistance
- High gloss
- Medium impact

APPLICATIONS

- Household appliances
- Laundry dryers
- Washing machines

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm³/10 min	18
Mechanical Properties			
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m²	20
Izod Notched Impact Strength, -30 °C	ISO 180/A	kJ/m²	10
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m²	19
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m²	10
Charpy Unnotched, 23 °C	ISO 179/1eU	kJ/m²	140
Charpy Unnotched, -30 °C	ISO 179/1eU	kJ/m²	80
Tensile Stress at Yield, 23 °C	ISO 527	MPa	47
Tensile Strain at Yield, 23 °C	ISO 527	%	2.5
Tensile Modulus	ISO 527	MPa	2400
Flexural Strength, 23 °C	ISO 178	MPa	70
Flexural Modulus, 23 °C	ISO 178	MPa	2300
Hardness, Ball Indentation	ISO 2039-1	MPa	105
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	98
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	96
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	100

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Coefficient of Linear Thermal Expansion	ISO 11359	10^{-6}/°C	80
Electrical Properties			
Dissipation Factor (100 Hz)	IEC 62631-2-1	10^{-4}	60
Dissipation Factor (1 MHz)	IEC 62631-2-1	10^{-4}	90
Relative Permittivity (100 Hz)	IEC 62631-2-1	-	3
Relative Permittivity (1 MHz)	IEC 62631-2-1	-	2.9
Comparative Tracking Index	IEC 60112	V	600
Other Properties			
Density	ISO 1183	kg/m³	1040
Processing			
Linear Mold Shrinkage	ISO 294-4	%	0.4 - 0.7
Melt Temperature Range	ISO 294	°C	230 - 260
Mold Temperature Range	ISO 294	°C	60 - 80
Injection Velocity	ISO 294	mm/s	240
Drying Temperature	-	°C	80
Drying Time	-	h	2 - 4